



Docket No.: 22116-00005-US3  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Christine L. O'Day et al.

Application No.: 09/396,523

Confirmation No.: 7553

Filed: September 15, 1999

Art Unit: 1621

For: NOVEL POLYAMINE ANALOGUES AS  
THERAPEUTIC AND DIAGNOSTIC  
AGENTS

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Examiner: P. G. O'Sullivan

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement, pursuant to 37 CFR 1.114(c), accompanies the Request for Continued Examination (37 CFR 1.114) submitted herewith.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

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It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 22116-00005-US5.

Dated: February 28, 2006

Respectfully submitted,

By

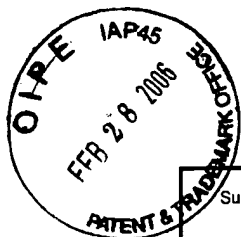
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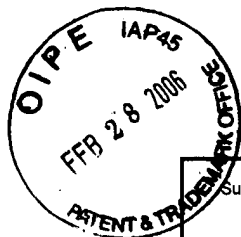
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Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	CA**	Gallop, M.A., et al., "Applications of Combinatorial Technologies to Drug Discovery. Background and Peptide Combinatorial Libraries," J. MED. CHEM., (1994) 37(9): 1233-51.		
	CB**	Ganem, B., "New Chemistry of Naturally Occuring Polyamines," ACC. CHEM. RES., (1982) 15:290-8.		
	CC**	Ganem, B., et al., "Chemistry of Naturally Occurring Polyamines. II. Unsaturated Spermidine and Spermine Derivatives," J. ORG. CHEM., (1987) 52:5044-6.		
	CD**	Ganem, B., et al., "Chemistry of Naturally Occuring Polyamines. 10. Nonmetabolizable Derivatives of Spermine and Spermidine," J. ORG. CHEM., (1986) 51:4856-61.		
	CE**	Goodnow, Jr. R.A., et al., "Oligomer Synthesis and DNA/RNA Recognition Properties of a Novel Oligonucleotide Backbone Analog: Glucopyranosyl Nuclei Amide (GNA)," TETRAHEDRON LETT., (1997) 38(18):3199-3202.		
	CF**	Goodnow, Jr. R.A., et al., "Synthesis of Thymine, Cytosine, Adenine, and Guanine Containing N-Fmoc Protected Amino Acids: Building Blocks for Construction of Novel Oligonucleotide Backbone Analogs," TETRAHEDRON LETT., (1997) 38(18):3195-8.		
	CG**	Gordon, E.M., et al., "Applications of Combinatorial Technologies to Drug Discovery Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions," J. MED. CHEM., (1994) 37(10): 1385-1401.		
	CH**	Gorus, F., et al., "Applications of Bio- and Chemiluminescence in the Clinical Laboratory," CLIN. CHEM., (1979) 25(4): 512-9.		
	CI**	Han, H. et al., "Liquid-Phase Combinatorial Synthesis," PROC. NATL. ACAD. SCI. USA, (1995) 92:6419-23.		
	CJ**	Hernandez, A.S. et al., "Solid-Supported tert-Alkoxyacylation Reagents for Anchoring of Amines During Solid Phase Organic Synthesis," J. ORG. CHEM., (1997) 62:3153-7.		
	CK**	Huber, M. et al., "2,2'-Dithiobis (N-ethyl-spermine-5-carboxamide) Is a High Affinity, Membrane-Impermeant Antagonist of the Mammalian Polyamine Transport System," J. BIOL. CHEM., (1996) 271(44):27556-63.		
	CL**	Laguzza, B.C., et al., "A New Protecting Group For Amines. Synthesis of Anticapsin from L-Tyrosine," TETRAHED. LETT., (1981) 22(16):1483-6.		

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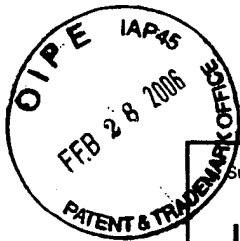
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CM**	Lakanen, J.R., et al., "α-Methyl Polyamines: Metabolically Stable Spermidine and Spermine Mimics Capable of Supporting Growth in Cells Depleted of Polyamines," J. MED. CHEM., (1992) 35:724-34.	
CN**	Lee, J., "Facile Preparation of Cyclopropylamines from Carboxamides," J. ORG. CHEM., (1997) 62:1584-5.	
CO**	Li, Y. et al, "Synthesis and Antitumor Evaluation of a Highly Potent Cytotoxic DNA Cross-Linking Polyamine Analogue, 1, 12-Diaziridinyl-4, 9-diazadodecane," J. MED. CHEM., (1996) 39:339-41.	
CP**	Lloyd-Williams, P., "Convergent Solid-Phase Peptide Synthesis," TETRAHEDRON, (1993) 49(48): 11065-133.	
CQ**	Marton, L.J., et al., "Polyamines as Targets for Therapeutic Intervention," ANNU. REV. PHARMACOL. TOXICOL., (1995) 35:55-91.	
CR**	Muramoto, K., "Preparation and Characterization of Photoactivable Heterobifunctional Fluorescent Reagents," AGRIC. BIOL. CHEM., (1984) 48 (11), 2695-9.	
CS**	Nakaoka, T., et al., "Inhibition of Rat Vascular Smooth Muscle Proliferation In Vitro and In Vivo by Bone Morphogenetic Protein-2," J. CLIN. INVEST., (1997) 100 (11): 2824-32.	
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CU**	Quemener, V., et al., "Polyamine Deprivation: A New Tool in Cancer Treatment," ANTICANCER RES., (1994) 14:443-8.	
CV**	Raines, D.E., et al., "Potential-Dependent Phase Partitioning of Fluorescent Hydrophobic Ions in Phospholipid Vesicles," J.MEMBRANE BIOL., (1984) 82:241-7.	
CW**	Rajeev, K.G., et al., "Conformationally Restrained Chiral Analogues of Spermine: Chemical Synthesis and Improvements in DNA Triplex Stability," J.ORG CHEM., (1997) 62:5169-73.	
CX**	Ranganathan, R.S., et al., "Novel Analogs of Nucleoside 3',5'-Cyclic Phosphates. I. 5'-Mono- and Dimethyl Analogs of Adenosine 3', 5'-Cyclic Phosphate," J. ORG. CHEM., (1974) 39(3):290-8.	
CY**	Rink, H., "Solid-phase synthesis of Protected Peptide Fragments Using A Trialkoxy-Diphenyl-Methylester Resin," TETRAHED. LETT., (1987) 28(33): 3787-90.	
CZ**	Salemme, F.R., et al., "Serendipity Meets Precision: The Integration of Structure-Based Drug Design and Combinatorial Chemistry for Efficient Drug Discovery," STRUCTURE, (1997) 5(3):319-24.	
CA1**	Sasaki, Y. et al., "Solid-Phase Synthesis and Biological Properties of Ψ[CH <sub>2</sub> NH] Pseudopeptide Analogues of a Highly Potent Somatostatin Octapeptide," J. MED. CHEM., (1987) 30(7):1162-6.	
CB1**	Schallenberg, E.E., et al., "Ethyl Thioli trifluoroacetate As An Acetylating agent with Particular Reference to Peptide Synthesis," J.AM.CHEM.SOC., (1955) 77:2779-83.	
CC1**	Seiler, N. et al., "Polyamine transport in Mammalian Cells. An Update.," INT. J. BIOCHEM. CELL BIOL., (1996) 2898): 843-61.	
CD1**	Seiler, N. et al., "Polyamine Transport In Mammalian Cells," INT.J. BIOCHEM., (1990) 22(3):211-8.	
CE1**	Shyng, S.-L., et al., "Depletion of Interacellular Polyamines Relieves Inward Rectification of Potassium Channels," PROC. NATL. ACAD. SCI. USA, (1996) 93:12014-9.	
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CH1**	Thompson, L.A. et al., "Straightforward and General Method for Coupling Alcohols to Solid Supports," TETRAHED. LETT., (1994) 35:9333-6.	

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	CI1**	Ventura, C. et al., "Polyamine Effects on [Ca2+] 1 Homeostasis and Contractility in Isolated Rat Ventricular Cardiomyocytes," AM. J. PHYSIOL., (1994) 267:H587-H592.	
	CJ1**	Wang, S.-S., "p-Alkoxybenzyl Alcohol Resin and p-Alkoxybenzyloxycarbonylhydrazide Resin for Solid Phase Synthesis of Protected Peptide Fragments," J. AM. CHEM. SOC., (1973) 95(4): 1128-1333.	

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